

4th International Conference and Exhibition on
**Satellite & Space
Missions**

June 18-20, 2018 | Rome, Italy



UK: Conference Series Ilc LTD

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Meeting Room @ Olimpica 1

conference**series**.com 08:30-09:00

Opening Ceremony

Keynote Forum

09:00-09:05 **Introduction**

09:05-09:40 **Title: Optical detection of asteroids by NEARBY platform**

Dorian Gorgan, Technical University of Cluj-Napoca, Romania

09:40-10:15 **Title: International virtual space innovation clusters to support space missions & exploration**

Pamela McCauley, University of Central Florida, USA

Networking & Refreshment Break 10:15-10:30 @ Foyer

Group Photo @ 10:30-10:40

10:40-11:15 **Title: All in motion: Satellite geodesy its past and future**

Yuksel Altiner, Federal Agency for Cartography and Geodesy, Germany

Special Session

11:15-12:00 **Title: Next Stop Mars: The Why, How and When of Human Missions**

Giancarlo Genta, Politecnico di torino, Italy

Sessions: Space Missions | Space explorations | Aerospace and Mechanical Engineering | Satellite Navigation and Communication | Mobile Satellite Communication Networks | Satellite Communications Systems | Remote Sensing Satellites and GIS | Materials Science and Applications in Space

Session Chair: **Joseph Seckbach**, The Hebrew University of Jerusalem, Israel

Session Co-Chair: **Giancarlo Genta**, Politecnico di torino, Italy

Session Introduction

12:00-12:20 **Title: What are the possible conflict termination criteria that define winning the next space war?**

Paul S Szymanski, Space Strategies Center, USA

12:20-12:40 **Title: Relative navigation and control of nano-satellites in formation**

Alexander V Nebylov, State University of Aerospace Instrumentation, Russia

12:40-13:00 **Title: Ground testing of a critical mechanism for object injection into geodesic orbit**

Daniele Bortoluzzi, University of Trento, Italy

Lunch Break 13:00-13:50 @ Hotel Restaurants

13:50-14:10 **Title: Searching for extinct or present microbial life on planetary surface**

Marek Tulej, University Bern, Switzerland

14:10-14:30 **Title: Synthesis and Analysis of control system for construction of the ordered groups of small satellites**

Alexander I Panferov, State University of Aerospace Instrumentation, Russia

14:30-14:50 **Title: The Jovian InfraRed Auroral Mapper (JIRAM) on board Juno: Performances and results**

Alberto Adriani, INAF Institute for Space Astrophysics and Planetology, Italy

14:50-15:10 **Title: Extremophilic bio-distribution in harsh environments with outlook to astrobiology**

Joseph Seckbach, The Hebrew University of Jerusalem, Israel

15:10-15:30 **Title: Innovative concept for very high throughput satellite systems**

Xavier Geneste, ECSAT - ESA, UK

15:30-15:50 Title: **GNSS carrier phase noise as a promising means to reconstruct fine structure of the ionosphere**
Vladislav V Demyanov, Irkutsk State Transport University, Russia

Networking & Refreshment Break 15:50-16:05 @ Foyer

Special Session

16:05-16:50 Title: **Deactivation of the gyroscope's inertial forces is the physical phenomena**
Ryspek Usubamatov, Kyrgyz State Technical University, Kyrgyzstan

Session Continuous

16:50-17:10 Title: **Materials for hydrogen storage applications**
Türkan Kopaç, Bülent Ecevit University, Turkey

17:10-17:30 Title: **Control system of orientation for the elastic spacecraft**
Alexander I Panferov, State University of Aerospace Instrumentation, Russia

Panel Discussion

Day 2 June 19, 2018

Meeting Room @ Olimpica 1

Keynote Forum

09:00-09:05 Introduction

09:05-09:40 Title: **Solar electric spacecraft for human Mars missions**
Giancarlo Genta, Politecnico di torino, Italy

09:40-10:15 Title: **LISA Pathfinder: A technology demonstrator mission for future in-space gravitational wave detection**
Daniele Bortoluzzi, University of Trento, Italy

Networking & Refreshment Break 10:15-10:30 @ Foyer

10:30-11:05 Title: **P-MMGP: Physics And Mathematical Models for Gyroscope Properties**
Ryspek Usubamatov, Kyrgyz State Technical University, Kyrgyzstan

11:05-11:40 Title: **Performance and technological feasibility of aerospace plane horizontal launch and landing with ekranoplane assistance**
Alexander V Nebylov, State University of Aerospace Instrumentation, Russia

Sessions: Space Missions | Remote Sensing Satellites and GIS | Satellite Navigation and Communication | Aerospace and Mechanical Engineering | Mobile Satellite Communication Networks Environmental Science

Session Chair: Giancarlo Genta, Politecnico di torino, Italy

Session Co-Chair: Ryspek Usubamatov, Kyrgyz State Technical University, Kyrgyzstan

Session Introduction

11:40-12:00 Title: **Earth observation for security and defence: The European Union Satellite Centre experience and future views**
Pascal Legai, European Union Satellite Centre, Spain

12:00-12:20 Title: **Lunar Communications**
Xavier Geneste, ECSAT - ESA, UK

12:20-12:40 Title: **Advanced space technologies in interests of scientific researches in the near earth and interplanetary space**
Serhii Moskalov, Yuzhnoye State Design Office, Ukraine

Lunch Break 12:40-13:30 @ Hotel Restaurants

Workshop

13:30-15:15 Title: **Outer space warfare challenges: Theory, doctrine, strategies and tactics**
Paul S Szymanski, Space Strategies Center, USA

Session Continuous

15:15-15:35 Title: **Turbo code based physical layer network coding for free space optical channel**
Alaa A Saeed Al Rubaie, Ministry of Higher Education and Scientific Research, Iraq

15:35-15:55 Title: **Modelling of stochastic errors for low-cost inertial/GNSS fully integrated architecture systems**
Ahmed Radi, University of Calgary, Canada

Poster Presentations & Refreshment Break 15:55-16:20 @ Foyer

16:20-16:40 Title: **Object release into free-fall: A technological challenge for in-space gravity wave detection**
Davide Vignotto, University of Trento, Italy

16:40-17:00 Title: **Selection of optimum time for spacecraft collision avoidance operation**
Zhang Rong Zhi, Xi'An Satellite Control Center, China

17:00-17:20 Title: **Erythemal UV dose rate spatial distribution using ozone monitoring instrument satellite data over Egypt**
Eman Fouad El-Said El-Nobi, South Valley University, Egypt

Panel Discussion

Award Ceremony & Certificate Distribution

Day 3 June 20, 2018

Networking Lunch 12:30-13:30 @ Hotel Restaurants

Bookmark your dates

5th International Conference and Exhibition on

Satellite & Space Missions

June 13-14, 2019 Edinburgh, Scotland

E-mail: satellite@enggconferences.com; satellite@meettheglobalexpert.com

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